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1 [Introduction to digital speech processing](#)

[Lawrence R. Rabiner](#), [Ronald W. Schafer](#)

 January 2007 **Foundations and Trends in Signal Processing** , Volume 1 Issue 1

Publisher: Now Publishers Inc.

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

Since even before the time of Alexander Graham Bell's revolutionary invention, engineers and scientists have studied the phenomenon of speech communication with an eye on creating more efficient and effective systems of human-to-human and human-to-machine ...

2 [A review of text and image retrieval approaches for broadcast news video](#)

[Rong Yan](#), [Alexander G. Hauptmann](#)

 October 2007 **Information Retrieval** , Volume 10 Issue 4-5

Publisher: Kluwer Academic Publishers

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 7

The effectiveness of a video retrieval system largely depends on the choice of underlying text and image retrieval components. The unique properties of video collections (e.g., multiple sources, noisy features and temporal relations) suggest we examine ...

Keywords: Concept-based retrieval, Fusion, Image retrieval, Review, Text retrieval, Video retrieval

3 [Information Retrieval from Documents: A Survey](#)

[M. Mitra](#), [B. B. Chaudhuri](#)

 May 2000 **Information Retrieval** , Volume 2 Issue 2-3

Publisher: Kluwer Academic Publishers

 Full text available: [Publisher Site](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 5

Given the phenomenal growth in the variety and quantity of data available to users through electronic media, there is a great demand for efficient and effective ways to organize and search through all this information. Besides speech, our principal means ...

Keywords: document image analysis, image retrieval, optical character recognition, text retrieval

4 [Communications of the ACM: Volume 52 Issue 9](#)



September 2009

Communications of the ACM

Publisher: ACM

 Full text available: [Digital Edition](#) , [Pdf](#) (7.28 MB)

 Additional Information: [full citation](#)
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5 [Assessing Optical Music Recognition Tools](#)

[Pierfrancesco Bellini](#), [Ivan Bruno](#), [Paolo Nesi](#)

March 2007


Computer Music Journal , Volume 31 Issue 1

Publisher: MIT Press

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 1

6 [Adaptive text correction with Web-crawled domain-dependent dictionaries](#)

 [Christoph Ringlstetter](#), [Klaus U. Schulz](#), [Stoyan Mihov](#)

October 2007 **Transactions on Speech and Language Processing (TSLP)** , Volume 4 Issue 4

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (390.15 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 90, Downloads (Overall): 265, Citation Count: 1

For the success of lexical text correction, high coverage of the underlying background dictionary is crucial. Still, most correction tools are built on top of static dictionaries that represent fixed collections of expressions of a given language. When ...


Keywords: Adaptive techniques, Web crawling, dictionaries, domains, error correction

7 [Generation of accessible diagrams by semantics preserving adaptation](#)

 [Cagatay Gencu](#)

January 2009 **SI GACCESS Accessibility and Computing** , Issue 93

Publisher: ACM

Full text available:  Pdf (2.36 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 75, Downloads (Overall): 75, Citation Count: 0

Diagrams are important components of educational materials. They can be found in various media. Printed media, such as text books, have traditionally been the most commonly used media for educational material, however online electronic resources, such ...


8 [Designing Computer Support for Content Analysis: A Situated Use of Video Parsing and Analysis Techniques](#)

[Nuno Guimarães](#), [Nuno Correia](#), [Inês Oliveira](#), [João Martins](#)

November 1998

Multimedia Tools and Applications , Volume 7 Issue 3

Publisher: Kluwer Academic Publishers

Full text available:  [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

This paper presents the use of video parsing and video analysis techniques to attain a radical change in Content Analysis processes. Content Analysis provides frameworks for a better understanding of information, mass media information in particular. ...

Keywords: content analysis, semantic processing, video indexing


9 [Intelligent Indexing and Semantic Retrieval of Multimodal Documents](#)

[Rohini K. Srihari](#), [Zhongfei Zhang](#), [Aibing Rao](#)

May 2000

Information Retrieval , Volume 2 Issue 2-3

Publisher: Kluwer Academic Publishers

Full text available:  [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 13

Finding useful information from large multimodal document collections such as the WWW without encountering numerous false positives poses a challenge to multimedia information retrieval systems (MMIR). This research addresses the problem of finding pictures. ...

Keywords: content-based retrieval, image indexing, multimedia information retrieval, multimodal query processing, text indexing

10 [From Word Form Surfaces to Communication](#)

Roland Hausser

July Proceeding of the 2010 conference on Information Modelling and Knowledge Bases XXI
2010

Publisher: IOS Press

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

The starting point of this paper is the external surface of a word form, for example the agent-external acoustic perturbations constituting a language sign in speech or the dots on paper in the case of written language. The external surfaces are modality-dependent ...

11 [A multilingual, multimodal digital video library system](#)



Michael R. Lyu, Edward Yau, Sam Sze

July 2002 **JCDL '02: Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (440.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 101, Downloads (Overall): 1064, Citation Count: 2

This paper presents the iVIEW system, a multi-lingual, multi-modal digital video content management system for intelligent searching and access of English and Chinese video contents. iVIEW allows full content indexing, searching and retrieval of multi-lingual ...

Keywords: applications, browser on mobile devices, middleware and browser interactions, multi-modal interactions, multimedia management and support

12 [A hidden Markov model-based character extraction method](#)

Songtao Huang, Majid Ahmadi, M. A. Sid-Ahmed

September 2008

Pattern Recognition, Volume 41 Issue 9

Publisher: Elsevier Science Inc.

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

In this paper a hidden Markov model (HMM)-based binarization algorithm is presented. This algorithm performs well for images with nonuniform background. To test the usefulness of the proposed technique some images of composite documents of printed characters ...

Keywords: Binarization, HMM, OCR, Stroke, Thresholding

13 [Communications of the ACM: Volume 52 Issue 4](#)



April 2009

Communications of the ACM

Publisher: ACM

Full text available: Digital Edition, Pdf (7.58 MB)

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 432, Downloads (12 Months): 1787, Downloads (Overall): 1929, Citation Count: 0

14 [Computing curricula 2001](#)



CORPORATE The Joint Task Force on Computing Curricula

September 2001

Journal on Educational Resources in Computing (JERIC), Volume 1 Issue 3es

Publisher: ACM [Request Permissions](#)

Full text available: HTML (2.78 KB), Pdf (613.63 KB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 140, Downloads (12 Months): 1094, Downloads (Overall): 14757, Citation Count: 27

15 Self

David Ungar, Randall B. Smith

June 2007 **HOPL III: Proceedings of the third ACM SIGPLAN conference on History of programming languages****Publisher:** ACM [Request Permissions](#)Full text available: [Mov](#) (53:9 MIN), [Pdf](#) (1.70 MB) Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 45, Downloads (12 Months): 414, Downloads (Overall): 1351, Citation Count: 1

The years 1985 through 1995 saw the birth and development of the language Self, starting from its design by the authors at Xerox PARC, through first implementations by Ungar and his graduate students at Stanford University, and then with a larger team ...

Keywords: Self, adaptive optimization, cartoon animation, dynamic language, dynamic optimization, exploratory programming, history of programming languages, morphic, object-oriented language, programming environment, prototype-based programming language, virtual machine

16 Computational Support for Sketching in Design: A Review

Gabe Johnson, Mark D. Gross, Jason Hong, Ellen Yi-Luen Do

January 2009 **Foundations and Trends in Human-Computer Interaction**, Volume 2 Issue 1**Publisher:** Now Publishers Inc.Additional Information: [full citation](#), [abstract](#), [references](#)**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 2

Computational support for sketching is an exciting research area at the intersection of design research, human-computer interaction, and artificial intelligence. Despite the prevalence of software tools, most designers begin their work with physical ...

17 Exploiting perception in high-fidelity virtual environments**Additional presentations from the 24th course are available on the citation page**

Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez

July 2006 **SIGGRAPH '06: SIGGRAPH 2006 Courses****Publisher:** ACM [Request Permissions](#)Full text available: [Mov](#) (68:6 MIN), [Pdf](#) (5.07 MB) Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 168, Downloads (12 Months): 1238, Downloads (Overall): 5142, Citation Count: 1

The objective of this course is to provide an introduction to the issues that must be considered when building high-fidelity 3D engaging shared virtual environments. The principles of human perception guide important development of algorithms and techniques ...

Keywords: collaborative environments, haptics, high-fidelity rendering, human-computer interaction, multi-user, networked applications, perception, virtual reality

18 Communications of the ACM: Volume 52 Issue 2

February 2009

Communications of the ACM

Publisher: ACMFull text available: [Digital Edition](#), [Pdf](#) (7.09 MB)Additional Information: [full citation](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 384, Downloads (12 Months): 1135, Downloads (Overall): 3048, Citation Count: 019 Communications of the ACM: Volume 51 Issue 10

October 2008

Communications of the ACM

Publisher: ACMFull text available: [Digital Edition](#), [Pdf](#) (7.16 MB)Additional Information: [full citation](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 301, Downloads (12 Months): 760, Downloads (Overall): 3316, Citation Count: 0

20 [Proceedings of the International Conference and Workshop on Emerging Trends in Technology](#)



B. K. Mishra

February 2010 **ICWET '10: Proceedings of the International Conference and Workshop on Emerging Trends in Technology**

Publisher: ACM

Additional Information: [full citation](#), [abstract](#)





Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

It gives me an immense pleasure and privilege to welcome you to ICWET-2010 hosted by Thakur College of Engineering & Technology (TCET), Mumbai, Maharashtra (India) during 26-27 February 2010. It is the first international conference organized by TCET ...

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